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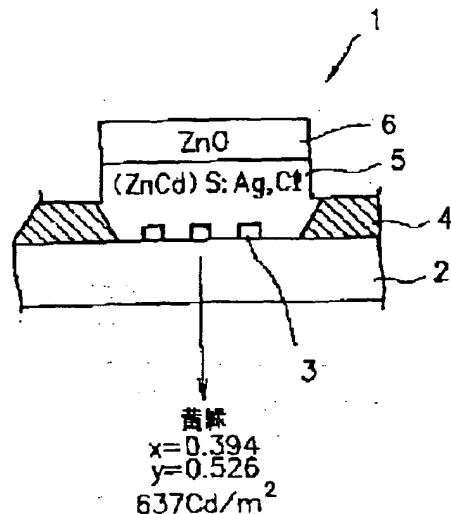
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TITLE : ANODE BASE



ABSTRACT : PURPOSE: To provide an anode base having a two-layered phosphor layer with high red emission efficiency from which no sulfide gas spreads.

CONSTITUTION: An anode conductor 3 is formed in a translucent pattern on the inner surface of a glass base 2. The inner surface of the base other than the anode conductor 3 is covered with a black insulating film 4. $(\text{Zn}_x\text{Cd}_{1-x})\text{S}:\text{Ag}, \text{Cl}$ ($x=0.1$ to 0.5), which is a sulfide phosphor 5, exists on the anode base 3. $\text{ZnO}:\text{Zn}$ which is a non-sulfide phosphor 6 exists on the phosphor 5. The anode base constitutes the envelope of a fluorescent display tube, and a lighting experiment is conducted. A beam of a wavelength as short as 550nm or less is emitted from the non-sulfide phosphor 6 by the bombardment of a low-speed electron beam. The short-wavelength beam is absorbed by the sulfide phosphor 5 and its emissive intensity decreases. The short-wavelength beam radiably excites the sulfide phosphor 5 to cause the phosphor 5 to emit red light with a peak near 650nm. Red components increase as a whole, and yellow-green emission can be obtained.

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